NOVEMBER/DECEMBER 2023

23PECS14A — ADVANCED SOFTWARE ENGINEERING

Time : Three hours Maximum : 75 marks

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SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What is a Soft-ware process model?
2. List out the three generic phases of Software engineering.
3. List the characteristics of a good SRS document.
4. Who is a good Software engineer?
5. What is Quality assurance?
6. Recall the essential attributes of Project planning.
7. How to identify whether the project cost is escalating larger than estimated?
8. Name the classification of Cohesiveness.
9. What is Code walk-through?
10. What is a SQA plan?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain the Problem domain in detail.

Or

(b) Write the characteristics of a Software process.

12. (a) Explain the various types of Requirements.

Or

(b) Write a note on Software quality.

13. (a) What are the responsibilities of a Software project manager?

Or

(b) Estimate the metrics for Project size estimation.

14. (a) How can we characterize a good Software design?

Or

(b) Explain the Function-Oriented design.

15. (a) State the characteristics of Software maintenance.

Or

(b) Explain the Software reverse engineering.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the Incremental Process Model.

17. Summarize the ISO 9001 Requirement and ISO 9000 certification.

18. Discuss the Software configuration management.

19. Explain the IEEE recommended practice for Software design description.

20. Elaborate a strategic approach to Software testing.

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